

Gabriel Kaszewski

SOFTWARE ENGINEER · SYSTEMS & INFRASTRUCTURE

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Summary

Systems engineer with 5 years of professional experience. Co-founder of jestzlecenie.pl (registered LLC). Co-author of peer-reviewed research in Nature Portfolio. Ships production systems in Rust and Python, from GenAI services to federated social platforms. Self-hosts everything on own Proxmox/Docker/Traefik stack, managed via Ansible.

Experience

Co-founder & Backend Engineer

<https://jestzlecenie.pl>

JESTZLECENIE SP. Z O.O.

2024 - Present

- Co-founded a local-jobs marketplace, live with 750+ users. Lead the backend — Django/DRF on PostgreSQL + PostGIS (radius and map-viewport geospatial search, trigram full-text, KNN recommendations), Celery/Redis, real-time messaging, moderation, notifications — and own infrastructure and deployments end to end: Docker behind Traefik, GitHub Actions CI/CD, Prometheus/Grafana. Two years in production, no ops team.

Software Engineer

Remote | Warsaw, PL

DIGIMONKEYS (CLIENTS: WPP / CHOREOGRAPH / WAVEMAKER, GIAP)

May 2021 - Present

WPP — Backend & Infrastructure (Sep 2023 - Present)

- Backend owner of a GenAI audience-persona service (FastAPI, async SQLAlchemy/PostgreSQL, BigQuery, Vertex AI + Imagen): API, generation worker and Pub/Sub event-sync worker, on Kubernetes via Helm with Terraform-managed GCP infrastructure.
- Hardened async job lifecycle under production load — stale/abandoned job reclamation, bounded sweeper cycles, shorter DB transactions, pooled connections released before third-party calls. Authored a resilience audit of retry, jitter and timeout policy across five service clients.
- Maintain internal Python packages consumed by sibling services (audience-definition translation across survey waves and country-specific demographic rules), semver with changelogs.
- Architected an Angular + Module Federation microfrontend platform, unifying standalone tools into one enterprise shell.

GIAP — GIS Engineering (May 2021 - Feb 2023)

- Optimized PostGIS/PostgreSQL cross-database queries using CTEs — cut execution from 5+ minutes to under 15 seconds. Built a public GIS web app for the City of Gdańsk (<https://geogdansk.pl>) with React, TypeScript and ArcGIS JS API.

Projects

Movies Diary · Thoughts · k-ap

<https://gabrielkaszewski.dev>

SELF-HOSTED FEDERATED SERVICES — RUST

2025 - Present

- Two ActivityPub services (federated movie diary, microblogging server) interoperating with Mastodon. Hexagonal/DDD Rust workspaces — 37 crates, swappable SQLite/PostgreSQL, filesystem/S3 and in-process/NATS adapters, JetStream fan-out to separate workers, Jellyfin/Plex webhooks, React SPA.
- Extracted the shared protocol layer into k-ap: composable trait facades, idempotent inbound handling, SSRF-hardened fetching. v0.5.0, 13 tagged releases.

Skills

Languages

Rust, Python, TypeScript, C#, C++

Backend & Infra

Axum, FastAPI, Django, Celery, Docker, Kubernetes, Helm, Terraform, Ansible, Proxmox, Traefik

Data & Messaging

PostgreSQL, BigQuery, SQLite, PostGIS, Redis, NATS JetStream, Pub/Sub, S3

Frontend

React, Next.js, Angular, TailwindCSS

Platforms

GCP, Azure, GitHub Actions, GitLab CI

Spoken

Polish (Native), English (C1)

Education

University of Gdańsk

Gdańsk, PL

B.S. IN BIOINFORMATICS

2021 - 2025

- Thesis:** “Modeling evolutionary processes using cellular automata” · **Publication:** Nature Scientific Reports (DOI).